1897.

RIVER TYNE

PORT SANITARY AUTHORITY.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

Tyne Printing Works Co., 22 to 26, Side, Newcastle-on-Tyne.

CONTENTS.

GENERAL REPORT.

PAGE.

Infectious Diseases—(Hospital Admissions, &c.) 6

Vessels boarded by Medical Officer of Health ... ... 9—14

Cases Reported during Voyage, or in Port:—

Smallpox 15

Diarrhœa and Choleraic Diarrhœa 15

Enteric (or Typhoid) Fever 16

Scarlet Fever 16

Diphtheria 16

Measles 16

Cholera 16

Other Diseases 17

General Sickness on board vessels arriving in Tyne Port ... ... 18—19

Arrivals from Infected or Suspected Ports— 20

„ „ Ports of Departure, and Nos. of Ships 21

General Sanitary Work, Vessels Inspected, Nationalities, &c. ... ... 22—23

„ „ Sanitary Defects observed 25

„ „ Special Cargoes, Water Supply, Food, Articles Disinfected, Passenger Steamers ... ... 25—26

„ „ Fishing Boats, Overcrowding, Smoke Nuisance, Regulations, Cattle Ships, Watch, Hospital ... ... 25—26

1897.

RIVER TYNE PORT SANITARY AUTHORITY.

CONSTITUTED BY LOCAL GOVERNMENT BOARD'S PROVISIONAL ORDER,
CONFIRMED BY ACT OF PARLIAMENT (45 & 46 Vict. ch. lxiv.)

ELECTED BY THE CORPORATION OF NEWCASTLE:

Alderman WILLIAM OWEN.
Alderman THOMAS BURGESS WINTER.
Alderman WILLIAM DAVIES STEPHENS *(Vice-Chairman).*
Councillor WILLIAM EDWARD KIRBY.
Councillor GEORGE CHRISTOPHER COATES.
Dr. ADAM WILSON.

ELECTED BY THE CORPORATION OF GATESHEAD:

Alderman EDWARD SMITH HINDMARSH.
Councillor NICHOLAS TEMPERLEY.

ELECTED BY THE CORPORATION OF TYNEMOUTH:

Alderman JOHN FOSTER SPENCE *(Chairman).*
Alderman JOSEPH GREEN.

ELECTED BY THE CORPORATION OF SOUTH SHIELDS:

Councillor THOMAS DUNN MARSHALL.
Councillor J. R. LAWSON, Junr.

ELECTED BY THE CORPORATION OF JARROW:

Alderman RICHARD HANDYSIDE.

ELECTED BY THE URBAN DISTRICT COUNCILS OF WALKER, WALLSEND, AND WILLINGTON QUAY:

Colonel THOMAS CRAWFORD.

ELECTED BY THE URBAN DISTRICT COUNCILS OF BENWELL, FENHAM, BLAYDON, NEWBURN, AND WHICKHAM.

HENRY WALLACE, Esq., J.P.

ELECTED BY THE URBAN DISTRICT COUNCILS OF FELLING AND HEBBURN.

Councillor THOMAS BRAID.

OFFICERS:

Medical Officer of Health	William Edmund Harker, M.D., B.S., B.Hy.
Clerk and Solicitor	R. Sheriton Holmes.
Treasurer	John J. Pace.
Inspector of Nuisances	Charles Irvin, Assoc. San. Inst.
Assistant Inspectors	Evans, Russel, and Marsh.

Offices: Town Hall, Newcastle-upon-Tyne.
Inspector's Station: River Tyne Port Sanitary Offices, Mill Dam, South Shields.

RIVER TYNE PORT SANITARY AUTHORITY.

Tynemouth,

January 25th, 1898.

Mr. ALD. JOHN FOSTER SPENCE, J.P.,

CHAIRMAN OF THE RIVER TYNE PORT SANITARY AUTHORITY.

Sir,

I have the honour to present herewith my Annual Report for the year 1897.

Twenty patients have been under treatment in the Floating Hospital ; 4 remained in Hospital at end of last year, and 16 have been admitted during 1897. The total number of days' treatment during the year amounted to 509. This gives an average of 25·4 days' duration in Hospital for each patient.

The work at the Hospital has been carried out under difficulties, owing to the inefficient administrative department, but it is a satisfaction to reflect upon the prompt way the Authority determined to improve this, by arranging for a new model administrative block, with laundry, which, when completed, will be an important addition to the Floating Hospital.

The sanitary inspection of vessels, which is the routine work, systematically carried out by your Inspectors, shews a very satisfactory record. 15,351 vessels have been visited ; this is the greatest number yet attained, being 1,785 in advance of the previous maximum in 1889.

The new launch, "John Foster Spence," will be completed shortly, and will facilitate the increasing amount of boarding work.

I am, Sir,

Your obedient Servant,

W. EDMUND HARKER.

Permanent Constitution of Port Sanitary Authority.

29th March, 1897.

By an order of the Local Government Board constituting "The River Tyne Port Sanitary Authority," the limits of jurisdiction are set forth in Article X.—The jurisdiction of the said Port Sanitary Authority shall extend to so much of the said Port of Newcastle as lies to the eastward of a line drawn from the point where the common boundary of the Parishes of Crawcrook and Wylam abuts on the right bank of the River Tyne due north to the nearest point in the common boundary of the Parishes of Milburn and North Dissington, and due south to the nearest point in the common boundary of the Parishes of Chopwell and Medomsley, and so much of the Ports of North Shields and South Shields as is comprised within the following lines, that is to say—

> A straight line drawn from the seaward extremity of the common boundary of the Parishes of Whitley and Tynemouth to the most southerly point in the common boundary of the Parishes of Heworth and Monkton, a straight line drawn from the last-mentioned point to the seaward extremity of the common boundary of the Parish of Harton and the County Borough of South Shields, a line drawn from such last-mentioned point due east to a point in the sea boundary of the Port of South Shields, a line drawn due east from the seaward extremity of the common boundary of the Parishes of Whitley and Tynemouth to a point in the seaward boundary of the Port of North Shields, and a line drawn from such last-mentioned point and thereafter following the seaward boundary of the Port of North Shields and the seaward boundary of the Port of South Shields to the point hereinbefore mentioned in the seaward boundary of the Port of South Shields;

together with the waters of the said parts of Ports, and all docks, basins, harbours, creeks, rivers, channels, roads, bays, and streams within such parts of Ports, and the place or places which may from time to time be appointed as the Customs Boarding Station or Stations for the said parts of Ports, and the place or places for the time being appointed for the mooring or anchoring of ships for the said parts of Ports under any Regulations for the prevention of the spread of diseases issued under the authority of the Statutes in that behalf, and for the purposes of any such Regulations as aforesaid shall also extend to any ship which in pursuance thereof, or of any directions given thereunder, shall be moored or anchored at the place appointed thereunder as aforesaid, or which shall be on its way thither.

ARTICLE XI.—For the purposes of this Order the following Sections of the Public Health Act, 1875, the Public Health (Officers) Act, 1884, the Public Health (Ships, &c.) Act, 1885, the Public Health (Members and Officers) Act, 1885, and the Public Health Acts Amendment Act, 1890, shall apply; and the Port Sanitary Authority shall have, exercise, perform, and be subject to, all the powers, rights, duties, capacities, liabilities, and obligations of an Urban District Council under the same Sections, so far as those Sections are applicable to the waters within the jurisdiction of the said Port Sanitary Authority, or to ships coming or being within the said jurisdiction, or to persons upon any such ship or brought by any such ship within the said jurisdiction, or to goods or things upon any such ship, or to goods or things landed from any such ship and being within the said jurisdiction, which in the opinion of the said Authority or their Medical Officer of Health require to be disinfected or destroyed, namely—

Of the Public Health Act, 1875:—

Sections 91 to 111, both inclusive, relating to Nuisances.

Sections 120 to 133, both inclusive, relating to Infectious Diseases and Hospitals.

Sections 134 to 140, both inclusive, relating to the prevention of Epidemic Diseases.

Sections 141 and 142, relating to Mortuaries.

Sections 173 and 174, relating to Contracts.

Sections 175, 176, and 177, relating to Purchase of Lands.

Sections 179, 180, and 181, relating to Arbitration.

Sections 182 to 186, both inclusive, and Section 188, relating to Byelaws.

Section 189 (except as regards the offices of Surveyor and Collector), Sections 191 to 197, both inclusive, and Sections 203, 205, and 206, relating to Officers and Conduct of Business of Local Authorities.

Sections 236 to 239, both inclusive, relating to Mortgages.

Sections 245, 247 (as amended by the District Auditors Act, 1879), 249, and 250, relating to Audit.

Sections 251, and 253 to 263, both inclusive, Sections 265 to 268, both inclusive, and section 269 (as amended by the Summary Jurisdiction Act, 1884), relating to Legal Proceedings.

Sections 278, 280 (second clause), and 282.

Section 298 as to costs of Provisional Orders.

Sections 299 to 302, both inclusive, relating to defaulting Local Authorities.

Sections 305 to 309, both inclusive, relating to Miscellaneous Provisions.

Sections 327, 328, and 329, being Saving Clauses.

Of the Public Health (Officers) Act, 1884 :—
Section 2.

Of the Public Health (Ships, &c.) Act, 1885 :—
Section 2.

Of the Public Health (Members and Officers) Act, 1885 :—
Section 2.

Of the Public Health Acts Amendment Act, 1890 :
Section 3 ; so far as it enables an Urban District Council to adopt Section 48.

Provided as follows :—

(1.) Nothing herein contained shall affect the powers of any Riparian Authority except as to such waters, ships, persons, and things as above-mentioned.

(2.) In this Article the term "ship" includes vessel or boat.

RIVER TYNE PORT SANITARY AUTHORITY.

Report of the Medical Officer of Health for the Year ended 31st December, 1897.

Infectious Disease in the Port.—Patients admitted into the Floating Hospital.

There were 4 cases in the Floating Hospital at the beginning of the year. During 1897, 16 patients have been admitted. The Medical Officer of Health visited the Floating Hospital 152 times during 1897. The subjoined Table gives particulars as to the cases and their issue :—

TABLE I.

Date of Admission.	Disease.	Cases Admitted	Name of Ship.	Where From.	Result.
Nov. 5th, 1896	Scarlet Fever	1	s. “ Wellesley ”	Tyne	Discharged, January 6th, 1897.
,, 23rd, ,,	,, ,,	1	s. “ Wellesley ”	Tyne	,, ,, 17th, ,,
Dec. 10th, ,,	Typhoid Fever	2	s.s. “ Loch Etive ”	Bergen	{1 ,, ,, 8th, ,, {1 ,, ,, 12th, ,,
January 17th, 1897	Smallpox	1	s.s. “ Erandio ”	Middlesbrough	,, March 1st, ,,
March 4th, ,,	Scarlet Fever	1	H.M.S. “ Medusa ”	Tyne	,, April 15th, ,,
,, 13th, ,,	Enteric Fever	1	s.s. “ Sybil ”	Philadelphia	,, May 5th, ,,
,, 22nd, ,,	Measles	1	H.M.S. “ Medusa ”	Tyne	,, April 10th, ,,
April 26th, ,,	*Diarrhœa	1	s.s. “ Beamish ”	Bilbao	,, ,, 28th, ,,
May 2nd, ,,	Scarlet Fever	1	s. “ Wellesley ”	Tyne	,, June 17th, ,,
,, 8th, ,,	Smallpox	1	s.s. “ Queen ”	Bilbao	,, May 22nd, ,,
,, 9th, ,,	Measles	1	s. “ Wellesley ”	Tyne	,, ,, 31st, ,,
July 19th, ,,	Enteric Fever	1	(Hospital Caretaker)	....	,, August 16th, ,,
August 11th, ,,	Measles	1	s.s. “ Manningham ”	Lulea	,, ,, 25th, ,,
,, 23rd, ,,	Smallpox	1	s.s. “ Benmore ”	Bilbao	Died, September 2nd, ,,
Sept. 22nd, ,,	Enteric Fever	1	sch. “ S. R. & H ”	London	Discharged, October 9th, ,,
,, 25th, ,,	,, ,,	1	s.s. “ Bothal ”	Marseilles	,, November 22nd, ,,
Nov. 15th, ,,	,, ,,	1	s.s. “ St. Helens ”	Bordeaux	In Hospital at close of year ,,
,, 30th, ,,	*Diarrhœa	1	s.s. “ Red Jacket ”	Bergen	Discharged, December 10th ,,
Dec. 20th, ,,	Diphtheria	1	H.M.S. “ Medusa ”	Tyne	In Hospital at close of year ,,
	Total	20			

*Removed as suspected cases of Typhoid Fever.

Vessels Boarded by Medical Officer of Health.—24 Vessels have been visited by Medical Officer of Health, on account of reported or suspected infectious sickness on Board.

The following Table gives the List of Vessels boarded during 1897, by the Medical Officer of Health and Inspector, on account of disease on board during the Voyage, or at the time of arrival in the Tyne.

TABLE II.

Date.		Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.						
Jan.	4	s.s. H.C. Orsted	Danish ...	Copenhagen ...	Phthisis ...	Patient was sent to the Royal Infirmary, Newcastle.
,,	11	s.s. Azamor ...	British ...	London ...	Heart Disease	The Chief Officer was found suffering from Heart Disease. He died at 3·30 on same day.
,,	16	s.s. Erandio ...	Spain ...	Middlesbro' . .	Smallpox ...	The Chief Officer was found suffering from Small Pox, and was removed to the Floating Hospital. The crew were mustered and each man examined, after which 17 of them were re-vaccinated. The vessel was thoroughly disinfected with perchloride of mercury, and all the effects of the crew were treated in the steam disinfector. On January 18th, this work was completed when the crew were again examined and found well, after which the vessel was given pratique.
,,	18	s.s. Dartmoor	British ...	Hamburg ...	Cramp ...	Two Firemen were found suffering from Cramp.
,,	20	s.s. Manhattan	,,	Philadelphia ...	Dysentery ...	A Seaman was found suffering from Dysentery, and was removed to the Royal Infirmary.
Feb.	2	bk. Inca ...	Norway ...	Pensacola ...	Influenza ...	Two of the crew were found suffering from Influenza. Medical treatment recommended.
,,	9	s.s. Rialto ...	British ...	New York ...	Bronchitis and Pneumonia	Two of crew found suffering from Pneumonia and Bronchitis, respectively, and were removed to the Royal Infirmary.
,,	10	s. Durham ...	,,	San Francisco	Retention of Urine	Medical treatment recommended.
,,	16	s.s. Kilsyth ...	,,	Hamburg ...	Pneumonia ...	Patient recommended to Royal Infirmary.

TABLE II.—*Continued.*

Date.		Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.						
Feb.	17	s. Adolphe	France	Antwerp	Influenza	Two of crew found suffering from Influenza. medical treatment recommended.
,,	22	s.s. Kayaslunia Maru	Japan	Marseilles	.. ..	No Infectious Disease existed on board this vessel amongst her crew of 244 Japanese seamen.
,,	25	s. Antonin	France	Dunkirk	Suicide	The body was removed to the Mortuary at South Shields.
,,	26	s.s. Johan Seim	Danish	Rotterdam	Peritonitis	Medical treatment recommended.
March	2	s.s. Eidswold	German	Copenhagen	Bronchitis	Medical treatment recommended.
,,	3	sch. Lady F. Hastings	British	London	Tonsilitis	Medical treatment recommended.
,,	4	s.s. Virginia	,,	Tampa	Influenza	Medical treatment recommended.
,,	4	H.M.S. Medusa	,,	Tyne ...	Scarlet Fever	Patient was removed to Floating Hospital.
,,	4	s.s. Rose	,,	Arbroath	Dyspepsia	Medical treatment recommended.
,,	9	s. Chili	France	Hamburg	Ophthalmia	Medical treatment recommended.
,,	9	s.s. Sir Chas. Tennant	British	Huelva	Bronchitis	Medical treatment recommended.
,,	12	s.s. Sybil	,,	Philadelphia	Typhoid Fever	Patient was removed to Floating Hospital.
,,	20	s.s. Temon	,,	Flushing	Rheumatism	Medical treatment recommended.
,,	22	H.M.S. Medusa	,,	Tyne ...	Measles	Patient was removed to the Floating Hospital.
,,	24	sch. Stord	Norway	Fredrickstadt	Bronchitis	Medical treatment recommended.
April	11	s.s. Johannesburg	British	Table Bay	Pneumonia	Medical treatment recommended.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.					
April 12	s.s. Mattaewan	British ...	New York ...	Ague	Medical treatment recommended.
,, 16	s.s. Mercur ...	Norway ...	Bergen ...	Cancer ...	Medical treatment recommended.
,, 22	brig Cambois...	British ...	London ..	Influenza ...	Medical treatment recommended.
,, 26	s.s. Beamish ...	,,	Bilbao ...	Suspected Enteric Fever	A Seaman was found with symptoms of Enteric Fever. and was admitted into the Floating Hospital. The case proved to be Simple Gastritis, and the patient was discharged on April 28th.
,, 30	s.s. Lancelot ...	,,	Galveston ...	Bronchitis ...	The Patient was recommended to the Royal Infirmary.
May 2	s. Wellesley ...	,,	Tyne	Scarlet Fever	The boy was removed to the Floating Hospital.
,, 8	s.s. Queen ...	,,	Bilbao ...	Smallpox ...	A Seaman was found suffering from Smallpox, and was removed to the Floating Hospital. The vessel was brought to the Quarantine Buoys, and the disinfecting hulk moored alongside. All the crew space was fumigated, and afterwards thoroughly treated with a solution of perchloride of mercury. All clothing and effects of the crew were treated in the steam disinfector. The crew were mustered and examined, when all were found to be well. On offering to re-vaccinate each man, the Captain refused before his men, so that they all followed his example.
,, 9	s. Wellesley ...	,,	Tyne	Measles ...	The boy was removed to the Floating Hospital.
,, 9	s.s. Watlington	,,	Rotterdam ...	Dyspepsia ...	Medical treatment recommended.
,, 24	brig Diana ...	Norway ...	Westerwik ...	Tonsilitis ...	Medical treatment recommended.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.					
May 27	s. Leomene ...	British ...	Chittagong and Hamburg	Yellow Fever	Twelve cases are reported as having occurred during the voyage. Eight of crew sickened at Rio Janeiro, one case proved fatal. The vessel sailed for Chittagong, and during the voyage four fresh cases occurred. The vessel was disinfected at Rio Janeiro, where the effects of the deceased were destroyed. She was again disinfected at Chittagong, and afterwards sailed for Hamburg, and thence to the Tyne where she was disinfected.
June 1	s.s. Washa Maru	,,	Glasgow ...	Bright's Disease, Rheumatism & Bronchitis	Medical treatment recommended.
,, 8	s.s. Ravensheugh	,,	Rouen ...	Rupture, Bronchitis & Ague	Medical treatment recommended.
,, 9	s.s. Cameo ...	,,	Montreal ...	Heart Disease	Medical treatment recommended.
,, 18	s. Minnet ...	Norway ...	Siam	Cholera ...	A fatal case of Cholera occurred on the voyage. The vessel was disinfected on arrival in the Tyne.
July 10	sch. Isabella Walker	British ...	London ...	Skin Disease and Venereal	Medical treatment recommended.
,, 16	s.s. Midnight Sun	,,	Bergen ...	Gastric Catarrah	A Passenger died on voyage from Bergen.
,, 21	s.s. J R. Thompson	,,	Rotterdam ...	Cramp ...	Two Firemen were found suffering from Cramp.
Aug. 7	s.s. Beacon Light	,,	Copenhagen ...	Dropsy ...	The patient was recommended to the Royal Infirmary.
,, 11	s.s. Manningham	Swedish ...	Lulea	Measles ...	A Seaman was found suffering from Measles, and was removed to the Floating Hospital.
,, 14	s.s. Eros ...	British ...	Marianople ...	Lumbago ...	Medical treatment recommended.
,, 16	s.s. Prospero ...	Norway ...	Arendal	Dropsy ...	Medical treatment recommended.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.					
Aug. 18	s.s. Oxford ...	British ...	London ...	Enteric Fever	A case of Enteric Fever developed on shore after arrival. The patient was removed to the Dean's Hospital. The vessel was disinfected.
,, 23	s.s. Benmore ...	,,	Bilbao ...	Smallpox ...	A Fireman was found suffering from Smallpox. The patient was removed to the Floating Hospital. The vessel was thoroughly disinfected at the Quarantine Buoys. The disinfecting hulk was brought alongside, and after the crew space was fumigated, the perchloride spray was used to cleanse every corner of the crew's quarters. All clothing and effects were treated in the steam disinfector. This important work occupied the Authorities' staff 36 hours.
Sept. 12	sch. Merzrag Zeems	Russia ...	Riga	Peritonitis ...	The patient was removed to the Royal Infirmary.
,, 22	sch. S.R. & H.	British ...	London ...	Enteric Fever	The Cabin Boy was found suffering from Typhoid Fever, and was removed to the Floating Hospital. The vessel was disinfected.
,, 25	s.s. Chiswick ...	,,	Rotterdam ...	Tonsilitis ...	Medical treatment recommended.
,, 25	s.s. Bothal ...	,,	Marseilles ...	Enteric Fever	An Apprentice was found suffering from Typhoid Fever, and was removed to the Floating Hospital. The crew space of vessel was disinfected.
Oct. 4	s.s. Cederdene	,,	Norfolk, Va. ...	Influenza ...	Medical treatment recommended.
,, 18	s.s. Dordrecht	Holland ...	Dordt... ...	Tonsilitis ...	Medical treatment recommended.
,, 26	s.s. Egremont Castle	British ...	Hamburg ...	Cramp ...	A Fireman was found suffering from Cramp.
Nov. 5	Bq. Erato ...	Norway ...	Baltic... ...	Influenza ...	Medical treatment recommended.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where From.	Nature of Sickness.	REMARKS.
1897.					
Nov. 9	sl. Ora et Labora	German ...	Hamburg ...	Accident ...	Medical treatment recommended.
,, 14	s.s. Beacon Light	British ...	Copenhagen ...	Bronchitis ...	Medical treatment recommended.
,, 15	s.s. St. Helens	,,	Bordeaux ...	Enteric Fever	A Fireman was found suffering from Typhoid Fever, and was removed to the Floating Hospital. The vessel was disinfected.
,, 21	s.s. New Londoner	,,	London ...	Convulsions ...	A child had died on the voyage from London.
,, 30	s.s. Red Jacket	,,	Horsens ...	Diarrhœa ...	A Seaman was found suffering from Diarrhœa, and was removed to Floating Hospital on suspicion.
Dec. 1	s.s. Viking	Sweden ...	Gothenburg ...	Erysipelas ...	The Captain was found suffering from Erysipelas. He was isolated, and treated on board his ship.
,, 3	s.s. Ardanbahu	British ...	Patras ...	Rheumatism ...	Patient recommended to Royal Infirmary.
,, 4	s.s. Deciembre	Spain ...	Rotterdam ...	Influenza ...	Medical treatment recommended.
,, 20	H.M.S. Medusa	British ...	Tyne	Diphtheria ...	A Marine from H.M.S. "Medusa" was admitted into the Floating Hospital suffering from Diphtheria. A bacteriological examination confirmed the diagnosis.
,, 21	s.s. Lemnos ...	,,	Bilbao ...	Smallpox ...	The Second Engineer developed Smallpox after arrival at his home in Sunderland. The vessel was thoroughly disinfected, and the names and addresses of the crew were forwarded to the respective Medical Officers of Health at their destinations.
,, 25	s.s. Vectis ...	,,	Rouen ...	Accident ...	Medical treatment recommended.
,, 31	s.s. Toledo ...	,,	New Orleans *via* Copenhagen	Yellow Fever	A case of Yellow Fever occurred on leaving New Orleans. The vessel was disinfected at Copenhagen.

TABLE III.

Classification of Diseases reported on Shipboard during voyage, on arrival, or whilst in the River Tyne Port, during the year 1897.

SMALLPOX AND SUSPECTED SMALLPOX.

Date of Arrival.	Name of Ship.	From.	No. of cases of Disease. On Voyage.	No. of cases of Disease. On or after Arrival.	Remarks.	Notes on Arrival in the Tyne.
1897.						
Jan. 16	s.s "Erandio"	Middlesbro' ...	...	1	Removed to Floating Hospital...	Vessel and crew's effects disinfected.
ay 8	s.s "Queen"	Bilbao	..	1	Removed to Floating Hospital.	"
ug. 23	s.s. "Benmore" ..	Bilbao	.	1	Removed to Floating Hospital...	"
ec. 21	s.s. "Lemnos"	Bilbao	...	1	Developed at Sunderland three days after arrival	"
		Total .	...	4		

DIARRHŒA, CHOLERAIC DIARRHŒA AND SUSPICIOUS CASES.

Date of Arrival.	Name of Ship.	From.	No. of cases of Disease. On Voyage.	No. of cases of Disease. On or after Arrival.	Date of Arrival.	Name of Ship.	From.	No. of cases of Disease. On Voyage.	No. of cases of Disease. On or after Arrival.
1897.					1897.		*Brought forward*	24	2
Jan. 5	s.s. "Christine"	Philadelphia	2	...	July 14	s.s. "Autocrat" ...	Rotterdam....	...	2
" 24	s.s "Eratio Couper"	Hamburg ...	5	...	" 16	s.s. "Wm. Balls"...	Rotterdam...	1	...
" 27	s.s. "Queen Margaret"	Calcutta and London	3	...	" 24	s.s. "Highlander"...	Philadelphia	2	...
Feb. 16	s.s. "Batoum" ...	Baltimore & Rotterdam	2	...	Aug. 14	s.s. "Eros" ...	Marianople	3	...
Mar. 4	s.s. "Senior" ..	Buenos Ayres & Antwerp	2	...	" 30	s s. "Stranton" ...	Oran ...	2	...
" 7	ship "Argentino"...	Rangoon ...	3	...	Oct. 4	s.s. "Sigurd Jarl"...	Bergen ...	...	1
April 26	s.s. "Beamish" ...	Bilbao ...	...	*1	" 12	s.s. "Lord Gough"	Montreal ...	...	2
May 13	s.s. "Diolibah" ...	Bilbao and Rotterdam	2	...	" 14	ship "River Indus"	Lobos Island	4	...
" 26	s.s. "Frode" ...	Copenhagen & Rotterdam	2	...	Nov. 3	s.s. "Gladys Royle"	Odessa and Hull	1	...
" 27	s.s. "Glenmorvan"	Bremen ...	1	...	" 30	s.s. "Red Jacket"...	Bourgas ...	...	*1
July 12	s.s. "Langford" ...	Rotterdam...	2	...	Dec. 7	s.s. "Wm. Balls" ..	Reval ...	1	...
" 13	s.s. "Premier" ...	Sea... ...	...	1					
		Carried forward	24	2			Total ...	38	8

* Removed to Floating Hospital.

TABLE III.—*Continued.*

ENTERIC (OR TYPHOID) FEVER.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.		REMARKS.	Notes on arrival in the Tyne.
			On Voyage.	On or after Arrival.		
1897.						
Mar. 13	s.s. "Sybil"	Philadelphia	..	1	Removed to Floating Hospital ...	Vessel disinfected.
,, 18	s.s. "Oxford"	Reval ...	...	1	Developed after arrival on shore	,,
Sept. 23	sch. "S. R. & H." ...	London ...	...	1	Removed to Floating Hospital ...	,,
,, 25	s.s. "Bothal"	Marseilles ...	...	1	,, ,, ,,	,,
,, 29	s.s. "Haddon Hall" ...	Bombay and Hamburg	...	1	At Hamburg	,,
Oct. 1	s.s. "Carlisle"	Tripoli ...	1	...	....	,,
,, 14	s. "River Indus" ...	Lobos Island	1	...	Fatal	,,
Nov. 15	s.s. "St. Helens" ...	Bordeaux ...	...	1	Removed to Floating Hospital ..	,,
Dec. 5	s.s. "Rigi"	Bankok ...	1	...	Fatal	,,
		TOTAL ...	3	6		

SCARLET FEVER.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.		REMARKS.	Notes on arrival in the Tyne.
			On Voyage.	On or after Arrival.		
1897.						
Mar. 4	H.M.S. "Medusa" ...	Tyne ...	...	1	Removed to Floating Hospital ...	...
May 2	s. "Wellesley"	,, ...	...	1	,, ,, ,, ...	...
		TOTAL ...	...	2		

DIPHTHERIA.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.		REMARKS.	Notes on arrival in the Tyne.
			On Voyage.	On or after Arrival.		
1897.						
Dec. 20	H.M.S. "Medusa" ...	Tyne ...	...	1	Removed to Floating Hospital ...	...

MEASLES.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.		REMARKS.	Notes on arrival in the Tyne.
			On Voyage.	On or after Arrival.		
1897.						
Mar. 22	H.M.S. "Medusa" ...	Tyne ...	...	1	Removed to Floating Hospital ...	...
May 9	s. "Wellesley"	,, ...	...	1	,, ,, ,,	...
Aug. 7	s.s. "Manningham" ...	Lulea ...	...	1	,, ,, ,,	Vessel disinfected.
		TOTAL ..	...	3		

CHOLERA.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.		REMARKS.	Notes on arrival in the Tyne.
			On Voyage.	On or after Arrival.		
1897.						
June 18	sail "Minnet"	Siam ...	1	...	Fatal	Vessel disinfected.

TABLE III.—*Continued.*

MALARIAL FEVER.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.	
			On Voyage.	On or after Arrival.
1897.				
Jan. 24	s.s. "Eratio Couper"	Hamburg ...	2	...
,, 5	s.s. "Batoum" ...	Bremen ...	1	...
Feb. 20	s.s. "Sardinian Prince"	Norfolk, Antwerp	7	...
Mar. 7	ship "Argentino"...	Rangoon ...	5	...
April 9	s.s. "John Fothergill"	River Plate, London	1	...
May 29	s.s. "Chamois" ...	Buenos Ayres Rotterdam...	3	...
July 13	sail "Oakworth" ...	Coquimbo, London	2	...
Aug. 23	s.s. "Benmore" ...	Bilbao ...	1	...
,, 27	sail "Antoinetta"...	Valparaiso, Dunkirk	4	...
Sept. 29	s.s. "Syrian Prince"	Syrian Coast	1	...
,, 29	s.s. "Haddon Hall"	Bombay, Hamburg	1	...
Oct. 13	sail "Manydown"...	Rangoon, Hamburg	14	...
Nov. 4	sail "Mayfield" ...	Portland, Hull...	2	...
		TOTAL ...	44	...

DYSENTERY.

Jan. 20	s.s. "Manhattan"...	Philadelphia	...	1
		TOTAL ...	...	1

YELLOW FEVER.

Date of Arrival.	NAME OF SHIP.	From.	No. of cases of Disease.	
			On Voyage.	On or after Arrival.
1897.				
May 27	ship "Leomene" ...	Chittagong, Hamburg	12	...
Dec. 31	s.s. "Toledo" ...	New Orleans, Copenhagen	1	..
		TOTAL ...	13	...

INFLUENZA.

51 cases reported on 40 vessels on arrival.

GENERAL SICKNESS ON BOARD

The subjoined Table gives a return of cases of Sickness * reported by Masters of Tyne Port Officials, in each

TABLE

DATE. 1897.	Smallpox, or Suspected Smallpox.	Measles.	Scarlet Fever.	Yellow Fever.	Diphtheria.	* Influenza.	Enteric Fever.	Cholera.	Diarrhœa & Choleraic Diarrhœa.	Dysentery.	Malarial Fever.	Erysipelas.	Inflammation.	Boils.	Blood Poisoning.	Syphilis.	Venereal Disease.	Consumption.
January ...	$\overset{o}{1}$	...	...	...	...	3	1	...	10	...	3	...	...	..	...	3	1	...
February ...	...	...	...	..	...	12	...	...	2	...	7	...	1	1	2	...	...	...
March ...	...	$\overset{o}{1}$	$\overset{o}{1}$	...	...	3	1	...	5	...	5	1	1	..	3	...	..	...
April ...	...	...	...	...	...	5	...	...	1	2	1	...	1	...	...	...	..	1
May ...	$\overset{o}{1}$	$\overset{o}{1}$	$\overset{o}{1}$	14	...	1	..	...	5	...	3	...	..	...	3	4	...	...
June ...	...	...	...	...	...	...	...	$\overset{x}{1}$	...	2	...	...	...	2	1	...	7	1
July ...	...	...	...	...	...	1	...	...	8	...	2	...	...	...	2	1	7	..
August ...	$\overset{o}{1}$	$\overset{o}{1}$	...	...	...	11	1	...	4	...	5	..	1	1	...	...	...	...
September ...	...	...	...	...	...	...	$\overset{o}{3}$	...	...	...	2	...	...	1	2	2	2	1
October ...	...	...	...	...	...	..	$\overset{x}{2}$	...	8	...	14	...	...	1	...	6	4	...
November ...	...	...	...	...	...	5	$\overset{o}{1}$	...	$\overset{o}{2}$	...	2	...	1	...	$\overset{x}{2}$	...	2	...
December ...	1	...	...	1	$\overset{o}{1}$	10	$\overset{x}{1}$	...	1	...	...	1	$\overset{x}{1}$	...	1	2	6	...
TOTALS ...	4	3	2	15	1	51	10	1	46	4	44	2	6	6	16	18	29	3

---

* The names of the Diseases occurring during Voyage are given as reported by the Masters of the Vessels.

VESSELS ARRIVING IN TYNE PORT.

Vessels as having occurred during the Voyage, or coming under the notice of the month of the Year 1897.

IV.

Heart Disease.	Rheumatism.	Neuralgia.	Lumbago.	Cold.	Pneumonia.	Pleurisy.	Bronchitis.	Tonsilitis.	Cramp.	Indigestion.	Intemperance.	Scurvy.	Cancer.	Beri Beri.	Debility.	Rupture.	Accidents.	Ill-defined.	TOTALS.
x 1	7	...	1	7	...	...	1	2	...	2	1	...	1	...	...	1	x 7	1	54
x 1	1	1	..	...	3	...	1	..	1	...	...	...	...	...	...	1	x 4	...	38
...	5	...	3	2	...	...	3	...	...	...	...	...	1	1	...	...	9	4	49
...	1	...	...	1	1	...	1	...	5	...	...	1	..	..	1	...	5	...	27
...	1	...	2	1	...	1	1	1	5	1	1	1	...	1	...	...	3	1	53
...	2	2	...	1	...	1	...	1	1	1	...	...	...	...	...	3	4	6	36
...	3	...	...	1	1	..	...	...	2	...	...	...	...	...	...	1	xx 11	x 3	43
...	1	...	3	...	...	...	1	..	2	...	...	...	...	.	2	...	3	...	37
...	1	...	...	..	...	...	...	1	7	...	2	..	...	...	...	...	xx 13	1	38
x 1	2	...	4	1	...	1	...	1	4	...	...	...	..	...	...	1	xx 11	1	62
...	2	...	...	...	...	...	...	..	2	...	...	...	...	...	..	1	1	x 1	22
...	7	2	...	6	...	...	xx 3	...	...	...	...	...	...	x 5	...	...	xxxx 9	1	59
3	33	5	13	20	5	3	11	6	29	4	4	2	2	7	3	8	80	19	518

x Deaths   o Removed to Tyne Floating Hospital.

Vessels Arriving from Infected or Suspected Ports*

The following return shows the number of vessels boarded in this Port by the Officers of the Port Sanitary Authority, on account of coming directly or otherwise from Foreign Ports infected, or suspected to be infected, with Cholera, Yellow Fever, Plague, or Smallpox :—

MONTHS.	From Infected Ports.		From Suspected Ports.		TOTALS.
	Direct to the Tyne.	To the Tyne Indirect.	Direct to the Tyne	To the Tyne Indirect.	
	No. of Vessels.	No. of Vessels.	No. of Vessels.	No. of Vessels.	
January... ...	24	19	16	10	69
February ...	34	31	17	19	101
March	31	36	13	18	98
April	19	32	12	22	85
May	20	29	12	15	76
June	20	23	8	31	82
July	16	21	11	26	74
August	26	27	11	13	77
September ...	27	32	10	14	83
October... ...	34	24	18	26	102
November ..	26	36	16	17	95
December ...	33	25	24	19	101
TOTAL ...	310	335	168	230	1043

* See opposite page.

Vessels arriving in the Tyne from infected ports were boarded by the Officers of the Tyne Port Sanitary Authority, as under :—

NAME OF PORTS.	Direct to the Tyne.	To the Tyne indirectly.	NAME OF PORTS.	Direct to the Tyne.	To the Tyne indirectly
			Brought forward ...	84	83
†Alexandria	...	13	†St. Petersburg ...	6	20
‡*Rio Janeiro	...	2	*Marseilles	3	2
*Santos	...	2	*Oran	2	13
‡New Orleans	...	1	*Valencia	15	18
*Pernambuco	...	1	*Aquilas	4	4
†Rosario	3	2	†Japan	...	1
†Monte Video	...	2	*Carthagena	5	14
†Buenos Ayres... ...	...	10	o Persian Gulf	...	1
†River Plate	...	14	o Singapore	...	1
o Calcutta	...	6	*Bilbao	171	154
o Rangoon	2	3	*Almeria	8	18
o Bombay	...	4	*Tripoli	10	...
*Garrucha	14	10	*Algiers	2	5
*Benisaf	19	3	o Siam	...	1
*Rouen	46	10			
Carried forward ...	84	83	TOTALS	310	335

† Ports infected with Cholera.
‡ Yellow Fever.
o Plague.
* Ports infected with Smallpox.

Emigrants.

Emigrant vessels coming to the Tyne have, as heretofore, been visited by the Inspectors on arrival, and kept under supervision whilst in Port.

Information as to Emigrants debarking here and proceeding overland to other British Ports, continues to be forwarded to the Medical Officers of Health of the respective Ports.

The number of Emigrants passing through the Tyne Port during 1897, so far as is known, was as follows :—

	No. of Emigrants.
For America by White Star Line from Liverpool ...	... 77
,, ,, ,, Cunard Line ,, ,, ...	... 279
,, ,, ,, American Line ,, ,, ...	... 261
,, ,, ,, Beaver Line ,, ,, ...	... 4
,, ,, ,, Allan Line ,, ,, ...	... 29
,, ,, ,, Anchor Line from Glasgow ...	... 7
,, ,, ,, Dominion Line from Liverpool ...	... 6
,, ,, ,, State Line from Glasgow ...	... 8
,, Cape and Port Natal by s.s. "Prussia" ...	... 200
,, Chili by s.s. "Lavinia"	... 10
,, America by s.s. "Adria"	... 67
,, ,, ,, s.s. "Erustia"	... 60
,, ,, ,, s.s. "Ambria"	... 82
,, Chili ,, s.s. "Modestia"	... 30
,, Africa ,, Castle Line	... 13
	1,133

General Sanitary Work.

The following is the report of inspections made and other work done by Inspector Irvin and his assistants :—

Vessels inspected during the year 1897 :—

British Steamers	9,044
,, Sailing Vessels	942
,, Fishing ,, ...	2,903
Foreign Steamers	1,926
,, Sailing Vessels	536
Total	15,351
Extra Visits Paid	262
Visits to Water Boats	58
,, Gangways	50*
Total Number of Visits	15,721

---

* The Gangways of the Tyne General Ferry Company, extending from the Fish Quay, North Shields, to Elswick, have been inspected twice, and were found in good condition.

The Nationalities of the Vessels were as follows :—

British	12,889
Danish	355
Norwegian	754
German	433
Swedish	307
French	182
Spanish	189
Russian	92
Greek	5
Italian	8
Dutch	111
Austrian	6
Belgian	18
Japan	2.
Total	15,351

Of the above vessels, the Sanitary condition was as follows :—

Good	13,439
Structural defects	342
Dirty condition	1,570
Total	15,351

The number of Vessels inspected during each of the last nineteen years has been as follows :—

In 1879	2,410
„ 1880	2,997
„ 1881	3,309
„ 1882	6,623
„ 1883	11,572
„ 1884	12,078
„ 1885	13,530
„ 1886	12,139
„ 1887	13,045
„ 1888	12,819
„ 1889	13,566
„ 1890	12,018
„ 1891	11,533
„ 1892	9,582
„ 1893	11,327
„ 1894	12,043
„ 1895	11,757
„ 1896	12,348
„ 1897	15,351

The total number of arrivals in Port during the year, as stated by H.M.'s Customs,* is 15,004 =

---

* From a return courteously furnished by Mr. Wm. R. Staveley, Collector of H.M.'s Customs.

The structural defects of Vessels observed include the following :—

	Cases.
Insufficient Ventilation...	38
Iron Deck to Line with Wood	11
Paint Locker in bad position	23
Defective Drainage	13
Defective Lighting	19
Defective Water Closets	18
Defective Water Closet Bulkheads... ...	8
Forecastle Deck Leaking	32
Side Scuttles to Re-fit	180
Total	342

The peaks, forecastle, and water closets of the Vessels specified under were found in dirty condition. Orders given to cleanse same were fully complied with.

British Steamers	814
,, Sailing Vessels	46
,, Fishing Vessels	460
Foreign Steamers	216
,, Sailing Vessels	34
Total	1,570

Total number of crews of Vessels visited by the Inspectors ...	180,159
,, passengers ,, ,, ...	22,727
,, emigrants arriving in the Tyne	1,133
Total	204,019

Vessels arriving Coastwise and inspected	7,593
Fishing Vessels arriving Coastwise and inspected	2,903
Vessels arriving from Foreign Ports and inspected	4,855
Total	15,351

Special Cargoes Inspected.

Among the different Cargoes examined by the Inspectors were the undermentioned :—

Description.	Rags.	Bones.	Onions.	Wheat.	Foreign and British Fish.	Potatoes.	Fruit.	Total.
No. of Consignments examined	74	4	8	161	2,903	22	98	3,270

Water-Boats and Water Supply to Ships in Port.

The water-boats, 28 in number, have been examined as usual, and found in good condition.

In 56 cases the *drinking water* of ships, which came from Ports infected, or suspected to be infected, with Cholera, has been changed, and the purification of the tanks has been seen to by the inspector, acting under the direction of the Medical Officer of Health.

Food Inspection.

The Food on board of one vessel was inspected on complaints by the crew. The Food (Bread) was found to be bad, was condemned and destroyed.

Advices as to Sickness

on shipboard, and other matters, continue to be received from and forwarded to the Health Departments of other British Port Sanitary Authorities.

Clothing and Bedding.

17 vessels and several lots of clothing or bedding have been **disinfected**. 944 beds have been burnt, and 32 lots of filthy clothing have been destroyed, on account of infection.

Passenger Steamers.

The Passenger Steamers arriving continue to be regularly visited and examined.

Fishing Boats.

The total arrival of fishing vessels at the Quay, North Shields, steam and sailing, is 13,460* (6,360 Trawlers and 7,100 Herring Boats) as compared with a total of 15,815 in the previous year. 460 of these, in foul condition, were cleansed and deodorized on notice from the Inspector. The rest were in good order.

Large Consignments of Herring and other Fish come from Denmark, Norway, and Sweden.

Overcrowding.

No cases under this heading have come under observation during the year.

Smoke Nuisance.

The Inspector reports that 42 observations of evolution of dense smoke have been made, and that in each case the offender has been communicated with.

Dead Dogs.

206 Dead Dogs have been removed from Dunston Foreshore. After disinfection, they were taken out to sea in R.T.C. Hoppers.

---

* From a return courteously furnished by Mr. McKenzie, Quay Master, North Shields.

Foul Cattle Ships.

The Inspector reports that 30 Cattle Ships arrived in the port direct with cattle, and 22 after having landed cattle elsewhere. They were cleansed under his supervision. The number reported in the previous year was 16.

Regulations.

Copies of Regulations issued have, as usual, been posted on all gangways, and delivered on board of vessels in the port.

Cholera.

Watch continues to be kept on all vessels homeward bound from infected or suspected ports. One fatal case of Cholera has been reported as having occurred during the voyage to the Tyne from Bankok. The vessel was disinfected at this port after arrival.

Yellow Fever.

Owing to the prevalence of this disease on the Eastern littorals of North and South America and the Gulf of Mexico, watch is kept on arrivals from infected ports. No cases of Yellow Fever have been reported on the voyage direct to the Tyne.

Two vessels arriving indirectly, viz., *via* Hamburg and Copenhagen to the Tyne, from infected ports, reported the outbreak of this disease on the voyage. The vessels were disinfected on arrival.

Plague.

In February, Dr. Theodore Thompson, one of the Medical Inspectors of the Local Government Board, made an inspection of the port as to its arrangements for dealing with the possible importation of Bubonic Plague.

Very few vessels arrive in the Tyne directly from Plague infected ports, but, in the event of such arrivals, I determined to make a physical examination of each man of the crew, when any form of sickness was reported as having occurred, either on the voyage or on arrival in the Tyne.

Floating Hospital.

In September, the hulk "Alliance," which supported the present administrative building, was condemned by your surveyor. At this time I advised the necessity of a more efficient administrative department, with a detached laundry, which is essential for an infectious hospital.

It is satisfactory to note that the Authority have a plan under consideration for erecting a new pontoon administrative block, which will furnish ample accommodation for nurses, caretakers, and servants, besides providing a laundry, so arranged as to minimise the risk of dealing with infective clothes.

W. EDMUND HARKER, M.D., B.Hy.,
Medical Officer.

Tynemouth,
January 25th, 1898